

# PATENT ABSTRACTS OF JAPAN

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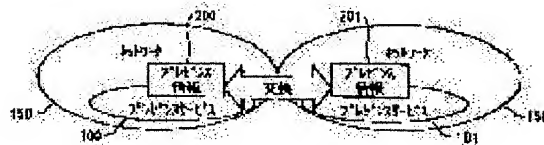
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## (54) PRESENCE SERVICE COMMUNICATION SYSTEM AND PRESENCE INFORMATION CONVERSION APPARATUS USED IN THIS SYSTEM

### (57)Abstract:

PROBLEM TO BE SOLVED: To interconnect presence services, in which composition methods of presence information are different.

SOLUTION: Contents, which are included in presence information 200 but not included in presence information 201, are canceled if a presence service 100 distributes the presence information 200, while they are converted to empty information if the presence service 100 distributes the presence information 201. On the other hand, contents, which are included in the presence information 201 but not included in the presence information 200, are converted to empty information if the presence service 100 distributes the presence information 200, while they are canceled if the presence service 100 distributes the presence information 201. As a result, presence services can be interconnected, keeping the value of presence information in service itself and realizing a field-scale service cooperated between services.



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CLAIMS

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[Claim(s)]

[Claim 1] Presence service communication system characterized by exchanging mutually the contents of the presence information which are the presence service communication system with which two or more presence services from which the configuration approach of presence information differed interconnected, and are treated with each presence service.

[Claim 2] Presence service communication system characterized by exchanging the contents of presence information mutually with a presence signal transduction means to change the contents of the presence information which a certain presence service treats with self-presence service, and the contents of the presence information which other presence service of arbitration treats in presence service communication system according to claim 1.

[Claim 3] It is the presence service communication system characterized by not changing said presence signal transduction means in presence service communication system according to claim 2 about the contents included to the both sides of the presence information treated with transmitting agency presence service, and the presence information treated with transmission place presence service, but carrying out transparency distribution.

[Claim 4] It is the presence service communication system characterized by changing into the contents of the precision of the presence information treated with said transmission place presence service about the contents which have a difference in the precision although contained to the both sides of the presence information which treats said presence signal transduction means with transmitting agency presence service in presence service communication system according to claim 2, and the presence information treated with transmission place presence service.

[Claim 5] It is the presence service communication system characterized by canceling the contents about the contents which are not included in the presence information treated with transmission place presence service although contained in the presence information which treats said presence signal transduction means with transmitting agency presence service in presence service communication system according to claim 2.

[Claim 6] It is the presence service communication system characterized by making the contents into empty information about the contents which are not included in the presence information treated with transmitting agency presence service although contained in the presence information which treats said presence signal transduction means with transmission place presence service in presence service communication system according to claim 2.

[Claim 7] It is presence signal transduction equipment used for the presence service communication system with which two or more presence services from which the configuration

approach of presence information differed interconnected. The transformation-rule management tool which manages the transformation rule for changing the contents of the presence information which a certain presence service treats with self-presence service, and the contents of the presence information which other presence service of arbitration treats, The contents of the presence information which a certain presence service treats with self-presence service, and the contents of the presence information which other presence service of arbitration treats are set to said transformation-rule management tool. Presence signal transduction equipment characterized by including a presence signal transduction means to change according to the transformation rule managed.

[Claim 8] It is presence signal-transduction equipment which said transformation-rule management tool manages two or more kinds of said transformation rules in presence signal transduction equipment according to claim 7, including further an I/O direction decision means to judge the I/O direction of said presence information, and is characterized by to change said presence signal transduction means according to the transformation rule determined according to the I/O direction judged by said I/O direction decision means.

[Claim 9] It is presence signal transduction equipment characterized by being what does not change said transformation rule in presence signal transduction equipment according to claim 7 or 8 about the contents included to the both sides of the presence information treated with transmitting agency presence service, and the presence information treated with transmission place presence service, but carries out transparency distribution.

[Claim 10] It is presence signal-transduction equipment characterized by to be what changed into the contents of the precision of the presence information treated with said transmission place presence service about the contents which have a difference in the precision although contained to the both sides of the presence information which treats said transformation rule with transmitting agency presence service in presence signal transduction equipment according to claim 7 or 8, and the presence information treated with transmission place presence service.

[Claim 11] It is presence signal transduction equipment characterized by being what cancels the contents about the contents which are not included in the presence information treated with transmission place presence service although contained in the presence information which treats said transformation rule with transmitting agency presence service in presence signal transduction equipment according to claim 7 or 8.

[Claim 12] It is presence signal transduction equipment characterized by being what makes the contents empty information about the contents which are not included in the presence information treated with transmitting agency presence service although contained in the presence information which treats said transformation rule with transmission place presence service in presence signal transduction equipment according to claim 7 or 8.

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DETAILED DESCRIPTION

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[Detailed Description of the Invention]

[0001]

[Field of the Invention] This invention relates to the presence signal transduction equipment used for the presence service communication system for offering the presence information which is the information especially about a user, and this system about the presence signal transduction equipment used for presence service communication system and this system.

[0002]

[Description of the Prior Art] It is used besides the communication service through media, such as a text, combining the presence service which notifies the information (presence information) in connection with a user to a communications partner with the Instant-Messaging service which it is provided by the current Internet etc. and the number of users is increasing dramatically in most cases. This presence service is realized as shown in drawing 8 . That is, presence service is realized by the application 32 of a presence server holding the presence information 31 registered from the application 30-1 of each client which a user operates, and releasing or notifying the presence information on a client to other clients 30-2 and 30-3 according to a certain access rule 33. The information about whether the user logs on to presence service as a class of presence information, the information about a user's location, and the information (text messaging --) about the capacity of a client Various information about a user, such as information (temporarily during work \*\*\*\* middle class) about a communication link condition, such as voice / still picture / animation communication link, and a file transfer, information (joy, anger, humor and pathos etc.) about feeling, and information on custom (text information which the user inputted), can be considered. Whenever a user's presence information changes, it is the description that a client notifies the update information to a presence server in an instant, and presence service is effective service in the communication environment which the client has always connected to a network.

[0003]

[Problem(s) to be Solved by the Invention] Here, the presence service B which a service provider different from the presence service A which a certain service BUROBAIDA offers offers, for example exists, and the case where each presence service which both providers offer is interconnected is considered. It is necessary to notice the presence information treated with each presence service about the ability of various configurations to be taken. For example, if presence information may be constituted only from information about whether the user logs on to service (a log on/log off), there is also a configuration which makes presence information information [ be / it / under / log on / log off / communication link / being related ]. Moreover,

apart from log on/log off information, the information about a user's location is treated as independent information, and there is also a configuration which doubles these and is made into presence information. Thus, the configuration approach of presence information changes with the contents of the presence information released and notified, or its number.

[0004] The configuration of the presence information treated with a certain presence service from this and the configuration of the presence information treated with other presence services are not necessarily matches. Therefore, when realizing interconnect of a different presence service compartment, there is a fault that presence information cannot be treated transparent as it is. Made in order that this invention may solve the fault of the conventional technique mentioned above, that purpose is offering the presence signal transduction equipment used for the presence service communication system which can realize interconnect of the presence service compartment from which the configuration approach of presence information differed, and this system.

[0005]

[Means for Solving the Problem] Presence service communication system by claim 1 of this invention is characterized by exchanging mutually the contents of the presence information which are the presence service communication system with which two or more presence services from which the configuration approach of presence information differed interconnected, and are treated with each presence service.

[0006] Presence service communication system by claim 2 of this invention is characterized by exchanging the contents of presence information mutually in claim 1 with a presence signal transduction means to change the contents of the presence information which a certain presence service treats with self-presence service, and the contents of the presence information which other presence service of arbitration treats.

[0007] Presence service communication system by claim 3 of this invention is characterized by changing and carrying out transparency distribution of said presence signal transduction means about the contents included to the both sides of the presence information treated with transmitting agency presence service, and the presence information treated with transmission place presence service in claim 2. It is characterized by changing into the contents of the precision of the presence information which treats the presence service communication system by claim 4 of this invention with said transmission place presence service about the contents which have a difference in the precision although said presence signal transduction means is included in claim 2 to the both sides of the presence information treated with transmitting agency presence service, and the presence information treated with transmission place presence service.

[0008] It is characterized by the presence service communication system by claim 5 of this invention canceling the contents about the contents which are not included in the presence information treated with transmission place presence service, although said presence signal transduction means is included in the presence information treated with transmitting agency presence service in claim 2. In claim 2, presence service communication system by claim 6 of this invention is characterized by making the contents into empty information about the contents which are not included in the presence information treated with transmitting agency presence service, although said presence signal transduction means is included in the presence information treated with transmission place presence service.

[0009] The presence signal transduction equipment by claim 7 of this invention It is presence signal transduction equipment used for the presence service communication system with which



two or more presence services from which the configuration approach of presence information differed interconnected. The transformation-rule management tool which manages the transformation rule for changing the contents of the presence information which a certain presence service treats with self-presence service, and the contents of the presence information which other presence service of arbitration treats, It is characterized by including a presence signal transduction means to change the contents of the presence information which a certain presence service treats with self-presence service, and the contents of the presence information which other presence service of arbitration treats according to the transformation rule managed in said transformation-rule management tool.

[0010] Said transformation-rule management tool manages two or more kinds of said transformation rules, including further an I/O direction decision means to by which the presence signal transduction equipment by claim 8 of this invention judges the I/O direction of said presence information in claim 7, and it is characterized by to change said presence signal transduction means according to the transformation rule determined according to the I/O direction judged by said I/O direction decision means.

[0011] The presence signal transduction equipment by claim 9 of this invention is characterized by said transformation rule being what changes and carries out transparency distribution about the contents included to the both sides of the presence information treated with transmitting agency presence service, and the presence information treated with transmission place presence service in claim 7 or 8. In claim 7 or 8, the presence signal-transduction equipment by claim 10 of this invention is characterized by to be what is changed into the contents of the precision of the presence information treated with said transmission place presence service about the contents which have a difference in the precision, although said transformation rule are included to the both sides of the presence information treated with transmitting agency presence service, and the presence information treated with transmission place presence service.

[0012] In claim 7 or 8, the presence signal transduction equipment by claim 11 of this invention is characterized by being what cancels the contents about the contents which are not included in the presence information treated with transmission place presence service, although said transformation rule are included in the presence information treated with transmitting agency presence service. In claim 7 or 8, the presence signal transduction equipment by claim 12 of this invention is characterized by being what makes the contents empty information about the contents which are not included in the presence information treated with transmitting agency presence service, although said transformation rule are included in the presence information treated with transmission place presence service.

[0013] In short, in this invention, interconnect of a service compartment is enabled by providing the conversion means of presence information in presence service in the presence service compartment from which the configuration approach of presence information differed.

[0014]

[Embodiment of the Invention] Next, the gestalt of operation of this invention is explained with reference to a drawing. In addition, other drawings and equivalent parts are shown by the same sign in each drawing referred to in the following explanation. Drawing 1 is the block diagram showing one gestalt of operation of the presence service communication system by this invention. In this drawing, the presence information 200 is treated with the presence service 100 offered on a network 150, and the presence information 201 is treated with the presence service 101 offered on a network 151. In this system, presence service 100 subordinate's user and

presence service 101 subordinate's user exchange presence information by connecting mutually each network 150 and 151 which offers these two presence services 100 and 101.

[0015] Here, the contents of the presence information 200 and 201 are carried out, respectively as shown in Table 1 and Table 2.

[0016]

[Table 1]

項目	項目の説明	具体例
1 サービス状態	サービスに付いているか否かに関する情報	「付」、 「付」
2 現在地	現在位置している場所の大まかな住所	「〇〇市××町付近」
3 更新日時	プレゼンス情報の最終更新日時	「2002年1月1日午前0時30分」

[0017] If Table 1 is referred to, the presence information 200 makes the item a "service state", a "present location", and "updating time." A "service state" is the information about whether it logs on to service. For example, "a log on" and "a log off" correspond to this "service state." A "present location" is information which shows the rough address (address) of the location which is carrying out the current position. For example, "near an OO city xx town" corresponds to this "present location."

[0018] "Updating time" is information which shows the time of the last update date of presence information. For example, "0:30 a.m. on January 1, 2002" corresponds to this "updating time."

[0019]

[Table 2]

項目	項目の説明	具体例
1 サービス状態	サービスに付いているか否かに関する情報	「付」、 「付」、 「通信中」
3 更新日時	プレゼンス情報の最終更新日時	「2002年1月1日午前0時」

[0020] If Table 2 is referred to, the presence information 201 makes a "service state" and "updating time" the item. A "service state" is the information about whether it logs on to service. For example, "a log on", "a log off", and "under a communication link" correspond to this "service state."

[0021] "Updating time" is information which shows the time of the last update date of presence information. For example, "0:00 a.m. on January 1, 2002" corresponds to this "updating time."

Hereafter, this system explains a concrete example.

(The 1st example) The presence service communication system by this example is shown in drawing 2. In the system of this example, the presence signal transduction equipment 300 for transmission and reception is formed on the network 150 which offers the presence service 100 as shown in this drawing.

[0022] In this drawing, the case where the presence information 200 is distributed to presence service 101 subordinate's user from presence service 100 subordinate's user is considered first. In this case, the presence signal transduction equipment 300 for transmission and reception can realize interconnect of presence service by processing the contents of presence information by the following technique.

(A) Carry out transparency distribution of the information about the contents included to the both sides of the presence information 200 and the presence information 201. A "service state" corresponds in Table 1 and Table 2.

(B) Although it is the contents included to the both sides of the presence information 200 and the presence information 201, change into the precision of the presence information 201 about



the contents which have a difference in precision. "Updating time" corresponds in Table 1 and Table 2. It changes about this "updating time" at "0:00 a.m. on January 1, 2002" which is the precision of the presence information 201, for example.

(C) Although contained in the presence information 200, cancel the contents concerned about the contents which are not included in the presence information 201. A "present location" corresponds in Table 1 and Table 2.

(D) Although contained in the presence information 201, change the contents concerned into empty information about the contents which are not included in the presence information 200. There is no corresponding information in Table 1 and Table 2.

[0023] Next, the case where the presence information 201 is distributed to presence service 100 subordinate's user from presence service 101 subordinate's user is considered. In this case, the presence signal transduction equipment 300 for transmission and reception can realize interconnect of presence service by processing the contents of presence information by the following technique.

(a) Carry out transparency distribution of the information about the contents included to the both sides of the presence information 200 and the presence information 201. A "service state" corresponds in Table 1 and Table 2.

(b) Although it is the contents included to the both sides of the presence information 200 and the presence information 201, change into the precision of the presence information 200 about the contents which have a difference in precision. "Updating time" corresponds in Table 1 and Table 2. "It will change at 0:30 a.m. on January 1, 2002 which is the precision of the presence information 200, for example" about this "updating time."

(c) Although contained in the presence information 201, cancel the contents concerned about the contents which are not included in the presence information 200. There is no corresponding information in Table 1 and Table 2.

(d) Although contained in the presence information 200, change the contents concerned into empty information about the contents which are not included in the presence information 201. A "present location" corresponds in Table 1 and Table 2.

[0024] The example of a configuration of the presence signal transduction equipment 300 for transmission and reception for realizing presence service communication system by this example is shown in drawing 3. In this drawing, the presence signal transduction equipment 300 for transmission and reception is constituted including the presence information processing control section 700, the transmitting agency presence information input section 701, the transmitting agency presence information storage section 702, the presence signal transduction section 703, and the transmission place presence information output section 704. The presence information processing control section 700 is constituted including the I/O direction decision section 710 which judges the I/O direction of presence information, and the transformation-rule Management Department 711. The transformation rule of the number according to the class of I/O direction are managed by the transformation-rule Management Department 711.

[0025] Hereafter, the outline of this equipment of operation is explained. In the transmitting agency presence information input section 701, if the presence information 720 sent from transmitting agency presence service is inputted, it will memorize to the transmitting agency presence information storage section 702, and will judge from which presence service it was inputted in the I/O direction decision section 710. As this decision ingredient, the notice from transmitting agency presence service, the information included in the presence information inputted can be considered. This decision result determines the transformation rule of presence

information at the transformation-rule Management Department 711. Above-mentioned (A) - (D) or (a) - (d) is equivalent to these transformation rule. According to the transformation rule determined at the transformation-rule Management Department 711, required contents are changed into the presence information sent to the presence signal transduction section 703 from the transmitting agency presence information storage section 702, and it is distributed through the transmission place presence information output section 704 as presence information 721 treated with transmission place presence service after that.

[0026] In the presence service compartment from which the configuration approach of presence information differed, interconnect of presence service is realizable with the above by forming the presence signal transduction equipment 300 for transmission and reception in the presence service 100. In addition, as deformation of this example, the presence signal transduction equipment 301 for transmission and reception may be formed in the presence service 101 as shown in drawing 4 . Thus, when it constitutes presence service communication system, interconnect of presence service can be realized in the presence service compartment from which the configuration approach of presence information differed.

[0027] (The 2nd example) The presence service communication system by this example is shown in drawing 5 . In the system of this example, the presence signal transduction equipment 400 for transmission is formed on the network 150 which offers the presence service 100, and the presence signal transduction equipment 401 for transmission is further formed on the network 151 which offers the presence service 101 as shown in this drawing. The presence signal transduction equipment 400 for transmission and the presence signal transduction equipment 401 for transmission shall process the contents of the presence information transmitted from the presence service on the network in which each is prepared.

[0028] First, the case where the presence information 200 is distributed to presence service 101 subordinate's user from presence service 100 subordinate's user is considered. In this case, in the presence signal transduction equipment 400 for transmission, interconnect of presence service is realizable by performing the same processing as the technique stated by (A) - (D) of the 1st example of the above.

[0029] Next, the case where the presence information 201 is distributed to presence service 100 subordinate's user from presence service 101 subordinate's user is considered. In this case, in the presence signal transduction equipment 401 for transmission, interconnect of presence service is realizable by performing the same processing as the technique stated by (a) - (d) of the 1st example of the above.

[0030] The example of a configuration of the presence signal transduction equipment 400,401 for transmission for realizing presence service communication system by this example is shown in drawing 6 . In this drawing, the presence signal transduction equipment 400,401 for transmission serves as the configuration that the I/O direction decision section 710 in the presence information processing control section 700 was omitted, in the presence signal transduction equipment for transmission and reception in the 1st example mentioned above. This is for there to be no need of transmitting agency presence service and transmission place presence service having been decided, and judging the I/O direction. Moreover, since the number of the transformation rules managed at the transformation-rule Management Department 711 has the single I/O direction, it is set only to one.

[0031] That is, the actuation concerning the I/O direction decision section 710 in the presence signal transduction equipment for transmission and reception is omitted, and actuation of this equipment becomes being the same as that of the case of the 1st example mentioned above

except the point that the decision of the transformation rule of presence information becomes unnecessary in connection with it. Hereafter, the outline of this equipment of operation is explained. In the transmitting agency presence information input section 701, if the presence information 720 sent from transmitting agency presence service is inputted, it will memorize to the transmitting agency presence information storage section 702. And presence information is sent to the presence signal transduction section 703, required contents are changed from the transmitting agency presence information storage section 702 according to the transformation rule determined at the transformation-rule Management Department 711, and it distributes through the transmission place presence information output section 704 as presence information 721 treated with transmission place presence service after that. In addition, above-mentioned (A) - (D) or (a) - (d) is equivalent to the transformation rule of the presence information determined at the transformation-rule Management Department 711.

[0032] By the above, it can prepare on the network 150 where the presence service 100 is provided with the presence signal transduction equipment 400 for transmission, and interconnect of presence service can be realized in the presence service compartment from which the configuration approach of presence information differed by preparing on the network 151 where the presence service 101 is provided with the presence signal transduction equipment 401 for transmission.

[0033] (The 3rd example) The presence service communication system by this example is shown in drawing 7. In the system of this example, the presence signal transduction equipment 500 for reception is formed on the network 150 which offers the presence service 100, and the presence signal transduction equipment 501 for reception is further formed on the network 151 which offers the presence service 101 as shown in this drawing. The presence signal transduction equipment 500 for reception and the presence signal transduction equipment 501 for reception shall process the contents of the presence information received with the presence service on the network in which each is prepared.

[0034] First, the case where the presence information 200 is distributed to presence service 101 subordinate's user from presence service 100 subordinate's user is considered. In this case, in the presence signal transduction equipment 501 for reception, interconnect of presence service is realizable by performing the same processing as the technique stated by (A) - (D) of the 1st example of the above.

[0035] Next, the case where the presence information 201 is distributed to presence service 100 subordinate's user from presence service 101 subordinate's user is considered. In this case, in the presence signal transduction equipment 500 for reception, interconnect of presence service is realizable by performing the same processing as the technique stated by (a) - (d) of the 1st example of the above.

[0036] The presence signal transduction equipment 500,501 for reception for realizing presence service communication system by this example is constituted like drawing 6 mentioned above. Actuation of this presence signal transduction equipment 500,501 for reception is the same as that of the case of drawing 6 mentioned above. By the above, it can prepare on the network 150 where the presence service 100 is provided with the presence signal transduction equipment 500 for reception, and interconnect of presence service can be realized in the presence service compartment from which the configuration approach of presence information differed by preparing on the network 151 where the presence service 101 is provided with the presence signal transduction equipment 501 for reception.

[0037] As mentioned above, in this system, interconnect of a service compartment is realizable

by providing the conversion function of presence information in presence service in the presence service compartment from which the configuration approach of presence information differed. In the above, although interconnect of the presence service compartment which has the relation of 1 to 1 was explained, even if it has the relation of one-pair \*\*, it is satisfactory in any way. The relation of one-pair \*\* is because two or more relation of independent 1 to 1 gathered.

[0038] With the operation gestalt of the above 1st, since interconnect of a service compartment is attained only by forming presence signal transduction equipment in the network of one of the two which offers presence service, it is effective in the expandability of service by interconnect becoming large. By the way, what kind of contents are included in presence information has a place depending on the property and capacity of the communication network which offers presence service. for example, -- the presence service provided with the information about a service state (a log on/log off) on a mobile network to accounting for a big rate in presence information with the presence service offered on the Internet -- a service state -- in addition, it is possible to include the present location obtained from the information about whether a client terminal is communicating, and the information about the location of the client terminal which a network manages in the contents of presence information Among those, the information about whether it is under communication link and the information about a location turn into comparatively worthy information, when offering service in a mobile network.

[0039] It becomes possible [ other service compartments ] to offer big service of a field-scale in cooperation, maintaining a presence value of information within self-service by interconnecting the service offered on such a mobile network with the presence service from which the configuration approach of presence information differed.

[0040]

[Effect of the Invention] In the presence service compartment from which, as for this invention, the configuration approach of presence information differed as explained above Since interconnect of a service compartment is realizable by providing the conversion function of presence information in presence service Other service compartments have the effectiveness offer big service of a field-scale in cooperation and that things can be carried out, maintaining a presence value of information within self-service by interconnecting with the presence service from which the configuration approach of presence information differed.

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## DESCRIPTION OF DRAWINGS

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### [Brief Description of the Drawings]

[Drawing 1] It is the block diagram showing one gestalt of operation of the presence service communication system by this invention.

[Drawing 2] It is the block diagram showing the configuration of the 1st example of the presence service communication system by this invention.

[Drawing 3] It is the block diagram showing the example of an internal configuration of the presence signal transduction equipment for transmission and reception in drawing 2 and drawing 4.

[Drawing 4] It is the block diagram showing the modification of the presence service communication system of drawing 2.

[Drawing 5] It is the block diagram showing the configuration of the 2nd example of the presence service communication system by this invention.

[Drawing 6] It is the block diagram showing the example of an internal configuration of the presence signal transduction equipment for transmission and reception in drawing 5 and drawing 7.

[Drawing 7] It is the block diagram showing the configuration of the 3rd example of the presence service communication system by this invention.

[Drawing 8] It is drawing showing the implementation technique of general presence service.

### [Description of Notations]

30-1 to 30-3 Client application

31 Presence Information

32 Server Application

33 Access Rule

100,101 Presence service

150,151 Network

200,201 Presence information

300,301 Presence signal transduction equipment for transmission and reception

400,401 Presence signal transduction equipment for transmission

500,501 Presence signal transduction equipment for reception

700 Presence Information Processing Control Section

701 Transmitting Agency Presence Information Input Section

702 Transmitting Agency Presence Information Storage Section

703 Presence Signal Transduction Section

704 Transmission Place Presence Information Output Section

710 The I/O Direction Decision Section  
711 Transformation-Rule Management Department

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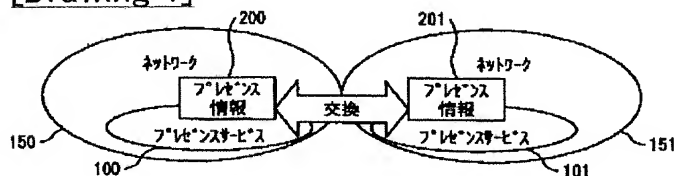
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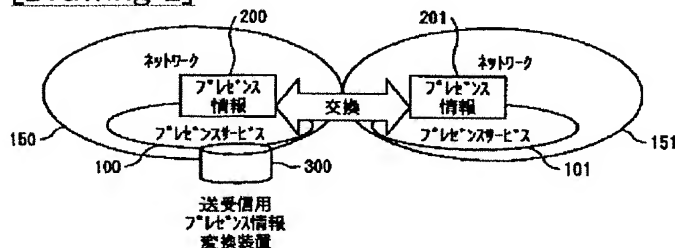
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## DRAWINGS

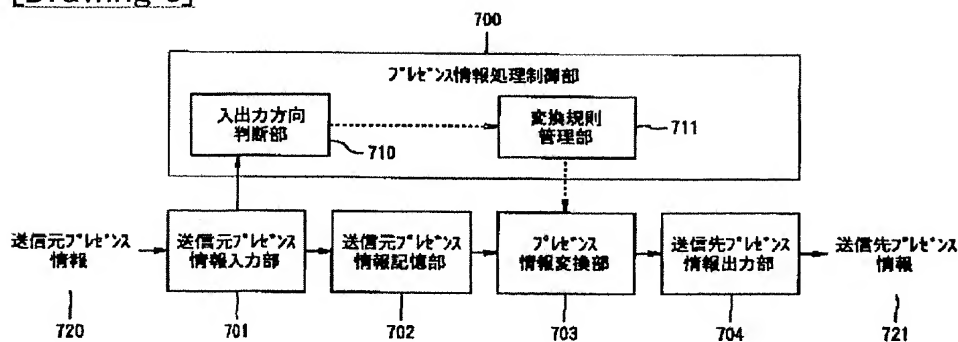
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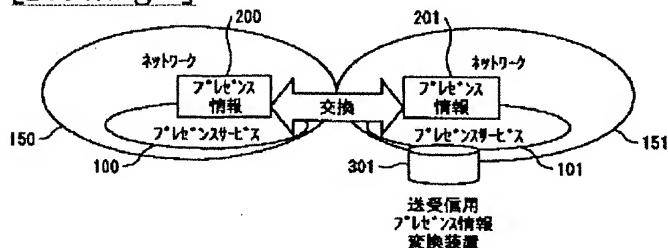
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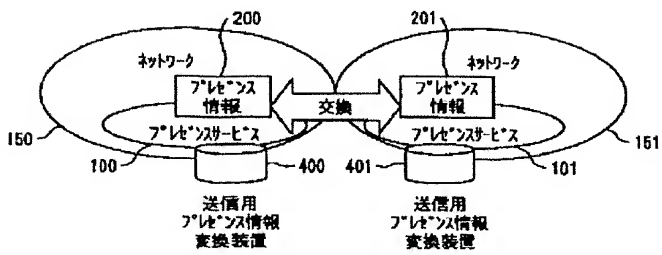
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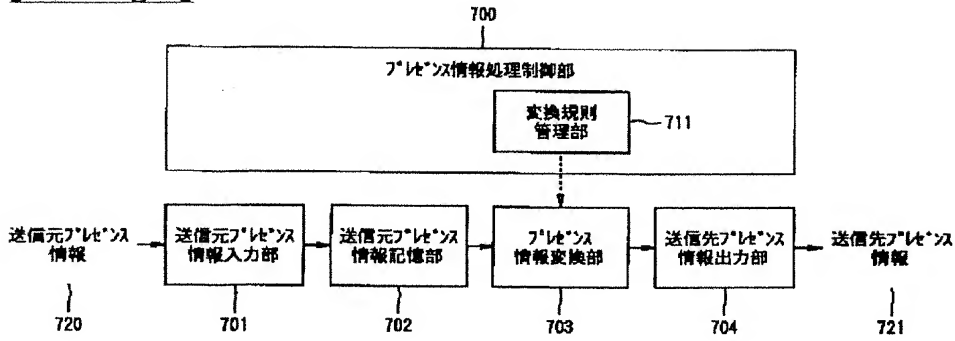
[Drawing 4]



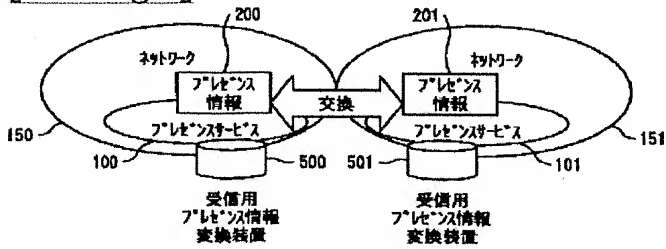
[Drawing 5]



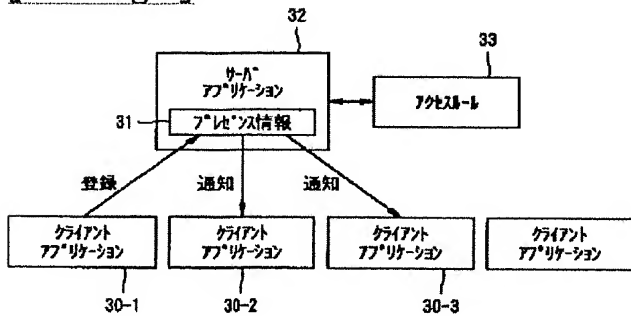
[Drawing 6]



[Drawing 7]



[Drawing 8]



[Translation done.]